

ABSTRACT OF THE DISCLOSURE

In an oscillator, on one major surface of a substrate consisting of a semiconductor material there are arranged a FET, an output matching circuit having a diode, an LC series resonant circuit having a capacitor and an inductor, a transmission line, and a source inductor. The source of the FET is grounded through a source inductor. The drain of the FET is connected to the anode of the diode constituting an output matching circuit through a transmission line. The FET amplifies a high-frequency signal input to the gate, and outputs the high-frequency signal from the drain to an output matching circuit. The diode regulates an oscillation power.